



Australian Bureau of Statistics

CensusAtSchool Australia

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Resources



CaSQ 25A - Using Graphs to Design Your Own Investigation

You can download this activity as a rich text file (RTF) using the link at the bottom of the page.

How to: Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool Random Sampler to download a sample.

Reference year: *(Select year)* **Sample size:** *At least 40 students*

Select questions: *All*

Location: *Select location* **Year level:** *(Select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% of the respondents for the parameters entered.

Task:

Use a CensusAtSchool random sample to conduct your own investigation and analysis.

1. **Pose a Question:** (This is what you want to find an answer to)

2. **Variables:** If you are looking at categorical data, you may only have one variable.

When you are looking at numerical data, you can use one or two variables. If you're looking for a relationship, you need to identify your variables as independent and dependent.
Independent (Explanatory): _____

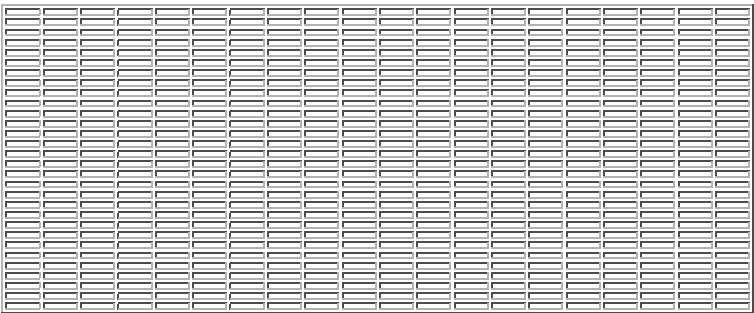
Dependent (Response): _____

3. **Results:** Use the first thirty values from your random sample to graph your data. Think about the most appropriate way to display your data. (Use the grid to create your graph)

4. **Discussion:**

- a. What sort of graph did you choose to display your data?
- b. Why did you choose this type of graph?
- c. Identify and describe any features or patterns in your graph.

5. **Conclusion:** Write a short summary paragraph describing your main findings from your graph.



Download the full activity:

RTF

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